



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/689,862B

DATE: 07/27/2004

TIME: 11:21:33

Input Set : A:\2004 GENPAX.ST25.txt

Output Set: N:\CRF4\07272004\J689862B.raw

3 <110> APPLICANT: Kim, Sung Hyun
 5 <120> TITLE OF INVENTION: NOVEL COMPOSITION AND METHODS FOR THE DIAGNOSIS OF LUNG
 CANCER

7 <130> FILE REFERENCE: GENPAX

C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/689,862B

10 <141> CURRENT FILING DATE: 2003-10-20

12 <160> NUMBER OF SEQ ID NOS: 7

14 <170> SOFTWARE: PatentIn version 3.2

16 <210> SEQ ID NO: 1

17 <211> LENGTH: 622

18 <212> TYPE: DNA

19 <213> ORGANISM: Homo sapiens

21 <400> SEQUENCE: 1

22	actacattga	gcatgatgtg	tctcctgaat	gtgtgtttca	tgtgaagtat	tgttctgatt	60
24	aactgacatc	cttgcttaca	agtttcacta	accctttgga	gtttaagcac	aaatgcacaa	120
26	agggaaaaga	ggacgacctg	tttgggggttc	ttttttgcaa	aaacaaacag	tcgcatgctg	180
28	gacgctaaca	ccaagcttac	actgtgtgtg	tgatacggct	gagctgctcc	ataaggctct	240
30	atctttttatc	tgcccaaggc	gtgccctgca	actctggaat	gcagagcagt	tgctgggggtg	300
32	attgacctag	gcacagtggg	gatattttccc	atcttcaaag	ccatgcaaaa	gggcctcctt	360
34	gaccaagaca	caggcctagt	gcttctggaa	tctcaggtta	tcattgtctg	cctcattgcc	420
36	cctgagacgg	gtgaaaacct	ctctttggag	gagggcgtag	ccagaaacct	cattaatccc	480
38	cagatgtacc	agcagctccg	ggagctacag	gagccctggc	cttaataagc	aggcttactg	540
40	agagcagagg	ccctctttct	gtggtggaag	caattgaaaa	gacaataatc	agtgagacag	600
42	ttggactgaa	aatcttagaa	gt				622

45 <210> SEQ ID NO: 2

46 <211> LENGTH: 268

47 <212> TYPE: DNA

48 <213> ORGANISM: Homo sapiens

50 <400> SEQUENCE: 2

51	gtggtggtgg	gcgctgtaa	tcccagctac	ttggggaggct	gaggcagaga	actgcttgaa	60
53	cccaggaggc	agaggttaca	gtgagccaag	atcgaccac	tgcactccag	cctccagcct	120
55	tcagccttgg	tgacagagca	agactctgtc	tcaaaaagaa	agaaaaagaa	aaagactgtg	180
57	aaagaacaca	catcaaaatg	ttaagcagtg	gtttgtatct	tgaaggacaa	ttttttttta	240
59	ttggaatgtt	tcttctctat	atttttgg				268

62 <210> SEQ ID NO: 3

63 <211> LENGTH: 496

64 <212> TYPE: DNA

65 <213> ORGANISM: Homo sapiens

67 <400> SEQUENCE: 3

68	cgggcccggg	atggactgaa	ccaagaccag	cagccaactt	agaggctcag	ttttaaggcc	60
70	ttgacttggg	atagtaagat	tagagatttc	cagcagtgtc	tcctccccgc	acctcccccc	120
72	acccccccgc	cccccgcttt	ttagtgaaga	gaaagtcaca	taaagataac	cattttaaaag	180
74	tgagtaattc	aaggccaggc	gcggtggccc	atgcctgtaa	tcccagcact	ttgggcggct	240
76	gaggcaggtg	gatcacttga	ggtaggaggt	tcgagcccag	cctgggtcaac	atggtgaaac	300

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78 cccgtctcta ctaaaaatat aaaaattagc cgggtgtggt ggcaggcacc tgtaatccca 360
80 gctattaggg aggctgaggc aggagaattg cttgagcctg ggaggcagag gttgcagcga 420
82 gccaaagattg tgccactgta ctccagcctg agcgacggag cgagaatctg tctcaaaaaa 480
84 aaaaaaagat aattca 496
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88 <211> LENGTH: 772
89 <212> TYPE: DNA
90 <213> ORGANISM: Homo sapiens
92 <400> SEQUENCE: 4
93 agttttctaag gatcatgtct gcgagccagg attcccgatc cagagacaat ggccccgatg 60
95 ggatggagcc cgaaggcgtc atcgagggtga gactggagaa atggaattct gtcctcccc 120
97 attacaactt tcagccgtat agagttagag tggcctcttg attgatttcc cagatcatct 180
99 agaagcagct ggtttcccta aagggaggag ggttgtaagc tctgaggctt ttgttagtag 240
101 gcaccagatt ctgtttgctc ggagactaca gctcagctcc accttttcca tgactcaagc 300
103 ttttaatttct ttgcatcccc tagagtaact ggaatgagat tgttgacagc tttgatgaca 360
105 tgaacctctc ggagtcctct ctccgtggca tctacgcta tggttttgag aagccctctg 420
107 ccaccagca gcgagccatt ctaccttgta tcaagggtga gacctctcag tcccagaaga 480
109 cattgtggac tgtccctgac ctgggtagag tggcatctgg ttggtgatgc ccactcata 540
111 tcagccaggg acaaagcaac tccttgttca tcccagcttg gcttttgatc cgtgcccattg 600
113 cctggttcat gccttggaac cataggtttc cttaaagag gtggtattgt agccagctta 660
115 tatttgcata tatagccatg tttctagtcc agcttggtgt gcaatactag atgagttaat 720
117 aactggtcct tgtttctgat ctggttccca ttgtgtaact gtgttgattg gg 772
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121 <211> LENGTH: 705
122 <212> TYPE: DNA
123 <213> ORGANISM: Homo sapiens
125 <400> SEQUENCE: 5
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128 aattgaaacc tggcgcaata gatatagtag cgcaagggaa agatgaaaaa ttatagccaa 120
130 gcataatata gcaaggacta acccctatac cttctgcata atgaattaac tagaaataac 180
132 tttgcaagga gagccaaagc taagaccccc gaaaccagac gagctacctt agaacagcta 240
134 aaagagcaca cccgtctatg tagcaaaaata gtgggaagat ttataggtag aggcgcacaaa 300
136 cctaccgagc ctggtgatag ctggttgccc aagatagaat cttagttcaa ctttaaattt 360
138 gccacagaa ccctctaaat ccccttgtaa atttaactgt tagtccaaag aggaacagct 420
140 ctttggacac taggaaaaaa ccttgtagag agagtaaaaa atttaacacc catagtaggc 480
142 ctaaaagcag ccaccaatta agaaagcgtt caagctcaac acccactacc taaaaaatcc 540
144 caaacatata actgaactcc tcacacccaa ttggaccaat ctatcacctt atagaagaac 600
146 taatgttagt ataagtaaca tgaaaacatt ctctccgca taagcctgcg tcagattaaa 660
148 aactgaact gacaattaac agcccaatat ctacatcaac caaca 705
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152 <211> LENGTH: 301
153 <212> TYPE: DNA
154 <213> ORGANISM: Homo sapiens
156 <400> SEQUENCE: 6
157 tggctcatgg ctacaatccc agcacttttg gaggccgagg caggcagatc accggaggtc 60
159 aggagttcaa gaccagcctg accaacacgg agaaaccccg tcccaactaa aaatacaaaa 120
161 ttagccaggc atggtggcac atgcctgtaa taccagctac tcaggaggct gaggcaggag 180
163 aatgacttga acctgagagg caaatgctgc agtgagccga gatcaggcca ttgcactcca 240
165 gcctgggaaa caagaggcaa aactccgtct ccaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300

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167 a 301

170 <210> SEQ ID NO: 7

171 <211> LENGTH: 953

172 <212> TYPE: DNA

173 <213> ORGANISM: Homo sapiens

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177 <221> NAME/KEY: misc_feature

178 <222> LOCATION: (354)..(354)

179 <223> OTHER INFORMATION: n is a, c, g, or t

181 <220> FEATURE:

182 <221> NAME/KEY: misc_feature

183 <222> LOCATION: (394)..(394)

184 <223> OTHER INFORMATION: n is a, c, g, or t

186 <220> FEATURE:

187 <221> NAME/KEY: misc_feature

188 <222> LOCATION: (403)..(403)

189 <223> OTHER INFORMATION: n is a, c, g, or t

191 <220> FEATURE:

192 <221> NAME/KEY: misc_feature

193 <222> LOCATION: (418)..(418)

194 <223> OTHER INFORMATION: n is a, c, g, or t

196 <220> FEATURE:

197 <221> NAME/KEY: misc_feature

198 <222> LOCATION: (429)..(429)

199 <223> OTHER INFORMATION: n is a, c, g, or t

201 <220> FEATURE:

202 <221> NAME/KEY: misc_feature

203 <222> LOCATION: (432)..(432)

204 <223> OTHER INFORMATION: n is a, c, g, or t

206 <220> FEATURE:

207 <221> NAME/KEY: misc_feature

208 <222> LOCATION: (437)..(437)

209 <223> OTHER INFORMATION: n is a, c, g, or t

211 <220> FEATURE:

212 <221> NAME/KEY: misc_feature

213 <222> LOCATION: (455)..(455)

214 <223> OTHER INFORMATION: n is a, c, g, or t

216 <220> FEATURE:

217 <221> NAME/KEY: misc_feature

218 <222> LOCATION: (459)..(459)

219 <223> OTHER INFORMATION: n is a, c, g, or t

221 <220> FEATURE:

222 <221> NAME/KEY: misc_feature

223 <222> LOCATION: (462)..(462)

224 <223> OTHER INFORMATION: n is a, c, g, or t

226 <220> FEATURE:

227 <221> NAME/KEY: misc_feature

228 <222> LOCATION: (501)..(501)

229 <223> OTHER INFORMATION: n is a, c, g, or t

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Input Set : A:\2004 GENPAX.ST25.txt

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233 <222> LOCATION: (647)..(647)
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237 <221> NAME/KEY: misc_feature
238 <222> LOCATION: (666)..(666)
239 <223> OTHER INFORMATION: n is a, c, g, or t
241 <220> FEATURE:
242 <221> NAME/KEY: misc_feature
243 <222> LOCATION: (702)..(702)
244 <223> OTHER INFORMATION: n is a, c, g, or t
246 <220> FEATURE:
247 <221> NAME/KEY: misc_feature
248 <222> LOCATION: (709)..(709)
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253 <222> LOCATION: (736)..(736)
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257 <221> NAME/KEY: misc_feature
258 <222> LOCATION: (750)..(750)
259 <223> OTHER INFORMATION: n is a, c, g, or t
261 <220> FEATURE:
262 <221> NAME/KEY: misc_feature
263 <222> LOCATION: (785)..(785)
264 <223> OTHER INFORMATION: n is a, c, g, or t
266 <220> FEATURE:
267 <221> NAME/KEY: misc_feature
268 <222> LOCATION: (811)..(811)
269 <223> OTHER INFORMATION: n is a, c, g, or t
271 <220> FEATURE:
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273 <222> LOCATION: (837)..(837)
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276 <220> FEATURE:
277 <221> NAME/KEY: misc_feature
278 <222> LOCATION: (844)..(844)
279 <223> OTHER INFORMATION: n is a, c, g, or t
281 <220> FEATURE:
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283 <222> LOCATION: (853)..(853)
284 <223> OTHER INFORMATION: n is a, c, g, or t
286 <220> FEATURE:
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288 <222> LOCATION: (875)..(875)
289 <223> OTHER INFORMATION: n is a, c, g, or t
291 <220> FEATURE:

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292 <221> NAME/KEY: misc_feature
293 <222> LOCATION: (880)..(880)
294 <223> OTHER INFORMATION: n is a, c, g, or t
296 <220> FEATURE:
297 <221> NAME/KEY: misc_feature
298 <222> LOCATION: (886)..(886)
299 <223> OTHER INFORMATION: n is a, c, g, or t
301 <220> FEATURE:
302 <221> NAME/KEY: misc_feature
303 <222> LOCATION: (896)..(896)
304 <223> OTHER INFORMATION: n is a, c, g, or t
306 <220> FEATURE:
307 <221> NAME/KEY: misc_feature
308 <222> LOCATION: (906)..(907)
309 <223> OTHER INFORMATION: n is a, c, g, or t
311 <220> FEATURE:
312 <221> NAME/KEY: misc_feature
313 <222> LOCATION: (918)..(918)
314 <223> OTHER INFORMATION: n is a, c, g, or t
316 <220> FEATURE:
317 <221> NAME/KEY: misc_feature
318 <222> LOCATION: (925)..(925)
319 <223> OTHER INFORMATION: n is a, c, g, or t
321 <220> FEATURE:
322 <221> NAME/KEY: misc_feature
323 <222> LOCATION: (931)..(931)
324 <223> OTHER INFORMATION: n is a, c, g, or t
326 <220> FEATURE:
327 <221> NAME/KEY: misc_feature
328 <222> LOCATION: (937)..(937)
329 <223> OTHER INFORMATION: n is a, c, g, or t
331 <220> FEATURE:
332 <221> NAME/KEY: misc_feature
333 <222> LOCATION: (940)..(940)
334 <223> OTHER INFORMATION: n is a, c, g, or t
336 <220> FEATURE:
337 <221> NAME/KEY: misc_feature
338 <222> LOCATION: (945)..(945)
339 <223> OTHER INFORMATION: n is a, c, g, or t
341 <220> FEATURE:
342 <221> NAME/KEY: misc_feature
343 <222> LOCATION: (951)..(951)
344 <223> OTHER INFORMATION: n is a, c, g, or t
346 <400> SEQUENCE: 7
347 gatatgaaat gactccctca gacaattttt aaaaagataa gtttttttaa gaccaataaa      60
349 aacctaaggg acaaaaataag acattgatga ttgaaattt ctttgtaaca aatatatacta      120
351 taaatttgaa agcaaaggat agactggaag agaataatttg caatatttaa aacaggctaa      180
353 tggtcagtg cacaatatata taacatgctc tcatgtatca attttaaaac aacacccttg      240
355 taaaaaaaaa aaaaaaaagg atccaatgag gcagggtaca aataacaaat tcttagcaaa      300

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RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; N Pos. 354,394,403,418,429,432,437,455,459,462,501,647,666,702,709
Seq#:7; N Pos. 736,750,785,811,837,844,853,875,880,886,896,906,907,918,925
Seq#:7; N Pos. 931,937,940,945,951

VERIFICATION SUMMARY

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Input Set : A:\2004 GENPAX.ST25.txt

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L:9 M:270 C: Current Application Number differs, Replaced Current Application Number
L:357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:300
L:359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:360
L:361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:420
L:363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:480
L:367 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:600
L:369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:660
L:371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:720
L:373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:780
L:375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:840
L:377 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:900